

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Inde application of:** Rogers et al.

**Application No.** 10/533,414

**Filed:** April 29, 2005

**Confirmation No.** 4172

**For:** N-ACETYL-D-GLUCOSAMINE (NAG)  
SUPPLEMENTED FOOD PRODUCTS  
AND BEVERAGES

**Examiner:** Michael C. Henry

**Art Unit:** 1623

**Attorney Reference No.** 6682-66957-02

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent  
for Applicant(s)

Date Mailed January 27, 2006

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

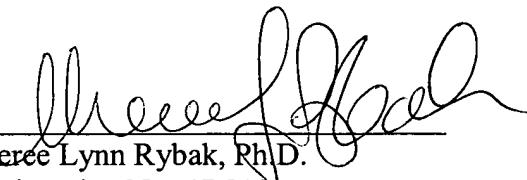
Applicants filed this Information Disclosure Statement (“IDS”) before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



Sheree Lynn Rybak, Rh.D.  
Registration No. 47,913

One World Trade Center, Suite 1600  
121 S.W. Salmon Street  
Portland, Oregon 97204  
Telephone: (503) 226-7391  
Facsimile: (503) 228-9446

cc: Docketing

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <div style="text-align: right; margin-top: -20px;">            FEBR 01 2006          1AP82       </div>		Attorney Docket Number	6682-66957-02	
		Application Number	10/533,414	
		Filing Date	April 29, 2005	
		First Named Inventor	Rogers	
		Art Unit	1623	
		Examiner Name	Michael C. Henry	
<b>U.S. PATENT DOCUMENTS</b>				
Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.				
Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		2,040,879	05/19/1936	Rigby
		3,232,836	02/01/1966	Carlozzi et al.
		3,632,754	01/04/1972	Balassa
		3,683,076	8/1972	Rovati
		3,903,268	09/02/1975	Balassa
		3,911,116	10/07/1975	Balassa
		3,914,413	10/21/1975	Balassa
		4,056,432	11/01/1977	Slagel et al.
		4,282,351	08/04/1981	Muzzarelli
		4,642,340	02/10/1987	Senin et al.
		4,806,474	02/21/1989	Hershberger
		4,886,541	12/12/1989	Hadwiger
		4,948,881	08/14/1990	Naggi et al.
		4,970,150	11/13/1990	Yaku et al.
		4,983,304	01/08/1991	Tsugita et al.
		5,219,749	06/15/1993	Bouriatis et al.
		5,232,842	08/03/1993	Park et al.
EXAMINER SIGNATURE:		DATE CONSIDERED:		
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.				

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Attorney Docket Number	6682-66957-02
			Application Number	10/533,414
			Filing Date	April 29, 2005
			First Named Inventor	Rogers
			Art Unit	1623
			Examiner Name	Michael C. Henry
		5,262,310	11/16/1993	Karube et al.
		5,702,939	12/30/1997	Fujishima et al.
		5,730,876	03/24/1998	You et al.
		5,843,923	12/01/1998	Schleck et al.
		5,859,263	01/12/1999	Ghorpade et al.
		5,902,801	05/11/1999	Schleck et al.
		5,905,035	05/18/1999	Okada et al.
		5,985,644	11/16/1999	Roseman et al.
		5,998,173	12/07/1999	Haynes et al.
		6,117,851	09/12/2000	Sherman et al.
		6,248,570	06/19/2001	Michon et al.
		6,333,399	12/25/2001	Teslenko et al.

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		EP	0 566 349	10/1993	Mitsubishi Petrochemical Co.
		EP	0 768 320	4/1997	Nippon Oil Co. Ltd.
		EP	0 885 954 A1	12/23/1998	Nestle SA
		EP	0 997 480	5/2000	Maruzen Petrochem Co. Ltd.
		EP	1 075 836 A2	02/14/2001	Yaizu Suizokagaku Industry CA, Ltd.

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Attorney Docket Number	6682-66957-02
			Application Number	10/533,414
			Filing Date	April 29, 2005
			First Named Inventor	Rogers
			Art Unit	1623
			Examiner Name	Michael C. Henry
		Great Britain	458,839	12/21/1936 Du Pont
		Great Britain	785,525	10/30/1957 American Home Prod
		Great Britain	833,264	04/21/1960 Ciba Ltd.
		Great Britain	896,940	05/23/1962 Pfizer & Co C
		Japan	55012109 (Abstract)	01/28/1980 Kogyo Gijutsuin
		Japan	62070401 A2 (Abstract)	03/31/1987 Fuji Spinning Co. Ltd.
		Japan	62198366 A (Abstract)	09/02/1987 Natl Food Res Inst Mitsui Seito Kk
		Japan	63097633 A2 (Abstract)	04/28/1988 Fuji Spinning Co. Ltd.
		Japan	63225602 A2 (Abstract)	09/20/1988 Nitta Gelatin KK
		Japan	2149335 A2 (Abstract)	06/07/1990 Nippon Oils & Fats Co. Ltd.
		Japan	2180903 A2 (Abstract)	07/13/1990 Nippon Oils & Fats Co. Ltd.
		Japan	2200196 A2 (Abstract)	08/08/1990 Nippon Kayaku KK
		Japan	2229832 A2 (Abstract)	09/12/1990 Fuji Spinning Co. Ltd.
		Japan	2258740 A2 (Abstract)	10/19/1990 Taiyo Kagaku Kogyo Co. Ltd.
		Japan	5068580 A2 (Abstract)	10/23/1993 Pias Arise KK
		Japan	7330808 A2 (Abstract)	12/19/1995 Dainichiseika Color Chem.
		Japan	8-41106 A (Translation)	02/13/1996
		Japan	10297913 A2 (Abstract)	11/19/1998 Kawaken Fine Chemicals Co.

EXAMINER SIGNATURE:	DATE CONSIDERED:
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
	WIPO	WO 98/30713	7/1998
	WIPO	WO 98/42755	10/01/1998
	WIPO	WO 99/41294	8/1999
	WIPO	WO 00/04182	01/27/2000
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>OTHER DOCUMENTS</b>	
		Database Caplus on STN: Accession No. 1976-519336, Document No: 85-119336, Perennation of Sphaerotheca mors-uviae as Cleistothcia with Particular Reference to Microbial Activity, Jackson et al., Transactions of the British Mycological Society (1976), Vol. 66, part 3, pages 463-471.	
		Database Caplus on STN: Accession No. 1999:816485, Document No: 132: 349193, Synthesis and Properties of N-Acetyl-D-Glucosamine, Li et al., Yaowu Shengwu Jishu (1999), Vol. 6, No. 3, pages 147-149.	
		Aldrich, Catalog Hand book of Fine Chemicals, p. 756 (1996).	
		Alonso et al., "Determination of the Degree of Acetylation of Chitin and Chitosan by Thermal Analysis," <i>J. Thermal Analysis</i> 28:189-193 (1983).	
		Arcidiacono et al., "Molecular Weight Distribution of Chitosan Isolated from <i>Mucor rouxii</i> under Different Culture and Processing Conditions," <i>Biotechnol. Bioeng.</i> 39:281-286 (1992).	
		Atri et al., "Analysis of Peptidoglycan Structure from Vegetative Cells of <i>Bacillus subtilis</i> 168 and Role of PBP 5 in Peptidoglycan Maturation," <i>J. Bacteriol.</i> 181:3956-3966 (1999).	
		Bartnicki-Garcia, "Cell Wall Chemistry, Morphogenesis, and Taxonomy of Fungi," <i>Chem. Fungal Cell Wall</i> , pp. 87-108 (1968).	
		Benjakul et al., "Improvement of Deacetylation of Chitin from Black Tiger Shrimp ( <i>Penaeus monodon</i> ) Carapace and Shell," <i>ASEAN Food J.</i> 9:136-140 (1994).	
		Beri et al., "Characterization of Chitosans via Coupled Size-Exclusion Chromatography and Multiple-angle Laser Light-Scattering Technique," <i>Carbohydr. Res.</i> 238:11-26 (1993).	
		Biermann, "Hydrolysis and Other Cleavage of Glycosidic Linkages," Chapter 3, pp. 29-41 (Date Unknown).	

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
		Cargill Acidulants, "Proposal for making a "Substantial Equivalence" notification for Non-Shellfish Glucosamine Hydrochloride under Regulation (EC) No 258/97 for the European Parliament and the Council of 27 January 1997 concerning novel foods and novel food ingredients," February 5, 2004.	
		Cargill, Incorporated, "GRAS NOTIFICATION for REGENASURE™ Glucosamine Hydrochloride," April 6, 2004.	
		Carlson et al., "Chitin/Chitosan Extraction from <i>A. Niger</i> Mycelium," <i>Cargill Central Research</i> , 16 pages (August 1997).	
		"Chitin/Chitosan Specifications," <i>Biopolymer Engineering Inc.</i> , <a href="http://www.biopolymer.com/spec.htm">http://www.biopolymer.com/spec.htm</a> , 1 page (Date Printed March 4, 1999).	
		Copy of glucosamine product label from Twinlab Flexi-licious (with shellfish allergy warning).	
		Copy of glucosamine product label from HyVee HealthMarket (with shellfish allergy warning).	
		Copy of glucosamine product label from Osteo Bi-flex (2 pages) (with shellfish allergy warning).	
		Davies et al., "Determination of the Degree of Acetylation of Chitin and Chitosan," <i>Methods in Enzymology</i> 161:442-446 (1988).	
		Deal et al., "Nutraceuticals as Therapeutic Agents in Osteoarthritis. The Role of Glucosamine, Chondroitin Sulfate, and Collagen Hydrolysate," <i>Rheum. Dis. Clin. North Am.</i> 25:379-395 (1999).	
		Department of Health and Human Services, <i>FDA Increases Sampling of Imported Shrimp and Crayfish</i> , FDA News (2002) (available at <a href="http://www.fda.gov/bbs/topics/NEWS/2002/NEW00815.html">www.fda.gov/bbs/topics/NEWS/2002/NEW00815.html</a> , last visited October 18, 2002).	
		Domanski et al., "Use of a Chitinase Complex and $\beta$ -(1,3)-Glucanase for Spheroplast Production from <i>Candida albicans</i> ," <i>J. Bacteriol.</i> 96:270-271 (1968).	
		Domszy et al., "Evaluation of Infrared Spectroscopic Techniques for Analysing Chitosan," <i>Makromol. Chem.</i> 186:1671-1677 (1985).	
		Eichner, "Antioxidative Effect of Maillard Reaction Intermediates," <i>Prog. Fd. Nutr. Sci.</i> 5:441-451 (1981).	
		Farkas, "Fungal Cell Walls: Their Structure, Biosynthesis and Biotechnological Aspects," <i>Acta Biotechnol.</i> 10:225-238 (1990).	
		Federal Trade Commission, <i>Shark Cartilage Receives 10M Draft Monograph</i> , FTC Notice (2002) (available at <a href="http://www.ftc.gov/opa/2002/09/fdacommnts.htm">www.ftc.gov/opa/2002/09/fdacommnts.htm</a> , as of September 2002).	
		Ferrer, "Acid Hydrolysis of Shrimp-Shell Wastes and the Production of Single Cell Protein from the Hydrolysate," <i>Bioresource Technol.</i> 57:55-60 (1996).	

EXAMINER SIGNATURE:	DATE CONSIDERED:
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
		Fleet et al., "17 Fungal Glucans - Structure and Metabolism," <i>Encyclopedia of Plant Physiol.</i> 13B:416-440 (1981).	
		"The Fungal Cell," Chapter 2, pp. 23-39 (Date Unknown).	
		Gassner et al., "Teichuronic Acid Reducing Terminal N-Acetylglucosamine Residue Linked by Phosphodiester to Peptidoglycan of <i>Micrococcus luteus</i> ," <i>J. Bacteriol.</i> 172:2273-2279 (1990).	
		Ghorpade et al., "Industrial Applications for Levulinic Acid," Industrial Agricultural Product Center, University of Nebraska (visited Oct. 8, 2003) < <a href="http://agproducts.unl.edu/levu.htm">http://agproducts.unl.edu/levu.htm</a> > 8 pp.	
		"Glucosamine Hydrochloride," <i>Pharmacopeial Forum</i> 26:1449-1450 (2000).	
		Gobin et al., "Structural Chemistry of Fungal Polysaccharides," pp. 367-417 (1968).	
		Gomyo et al., "On the Interaction of Melanoidin with Metallic Ions," <i>Agr. Biol. Chem.</i> 40:33-40 (1976).	
		Hayase et al., "Scavenging of Active Oxygens by Melanoidins," <i>Agric. Biol. Chem.</i> 53:3383-3385 (1989).	
		Huang et al., "Development and Validation of Oxygen Radical Absorbance Capacity Assay for Lipophilic Antioxidants Using Randomly Methylated $\beta$ -Cyclodextrin as the Solubility Enhancer," <i>J. Agric. Food Chem.</i> , 7 pp. (2002).	
		Huang et al., "High-Throughput Assay of Oxygen Radical Absorbance Capacity (ORAC) Using a Multichannel Liquid Handling System Coupled with a Microplate Fluorescence Reader in 96-Well Format," <i>J. Agric. Food Chem.</i> 50:4437-4444 (2002).	
		Jacobson, "Berichte der Deutschen Chemischen Gesellschaft," pp. 2192-2200 (1898) (German).	
		Jeremy Appleton, <i>Inadequate Screening of Imported Food and Dietary Supplements</i> , 2 Integrative Medicine, 58-65 (available at <a href="http://www.ifr.bbsrc.ac.uk/protall/infosheet.htm">www.ifr.bbsrc.ac.uk/protall/infosheet.htm</a> , Feb./Mar. 2003).	
		Johnston et al., "The Composition of the Cell Wall of <i>Aspergillus niger</i> ," <i>Biochem. J.</i> 96:651-658 (1965).	
		Kimura et al., "Determination of the Mode of Hydrolysis of Chitooligosaccharides by Chitosanase Derived from <i>Aspergillus Oryzae</i> by Thin Layer Chromatography," <i>Chemistry Letters</i> , pp. 223-226 (1992).	
		Kostina et al., "Chitin of mycelial fungi of the <i>Penicillium</i> genus," <i>Prikl. Biokhim. Mikrobiol. Abstract</i> (1978), 14(4), 586-593.	

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
		Kurita, "Controlled Functionalization of the Polysaccharide Chitin," <i>Prog. Polym. Sci.</i> 26:1921-1971 (2001).	
		Kurita et al., "Studies on Chitin, 3, Preparation of Pure Chitin, Poly(N-acetyl-D-glucosamine), from the Water-Soluble Chitin," <i>Makromol. Chem.</i> 178:2595-2602 (1977).	
		Kurita et al., "Studies on Chitin, 4, Evidence for Formation of Block and Random Copolymers of N-Acetyl-D-Glucosamine and D-Glucosamine by Hetero- and Homogeneous Hydrolyses," <i>Makromol. Chem.</i> 178:3197-3202 (1977).	
		Maghami et al., "Evaluation of the Viscometric Constants for Chitosan," <i>Makromol. Chem.</i> 189:195-200 (1988).	
		Maitre et al., "Primary T-Cell and Activated Macrophage Response Associated with Tumor Protection Using Peptide-Poly-N-Acetyl Glucosamine Vaccination," <i>Clin. Cancer Res.</i> 5:1173-1182 (1999).	
		Mima et al., "Highly Deacetylated Chitosan and Its Properties," <i>J. Appl. Polymer Sci.</i> 28:1909-1917 (1983).	
		Muzzarelli et al., "Chelating, Film-Forming, and Coagulating Ability of the Chitosan-Glucan Complex from <i>Aspergillus niger</i> Industrial Wastes," <i>Biotechol. Bioeng.</i> XXII:885-896 (1980).	
		Nanjo et al., "Purification, Properties, and Transglycosylation Reaction of $\beta$ -N-Acetylhexosaminidase from <i>Nocardia orientalis</i> ," <i>Agricul. Biol. Chem.</i> 54:899-906 (1990).	
		Nanjo et al., "Purification and Characterization of an Exo- $\beta$ -D-Glucosaminidase, a Novel Type of Enzyme, from <i>Nocardia orientalis</i> ," <i>J. Biol. Chem.</i> 265:10088-10094 (1990).	
		Nanjo et al., "Enzymatic Method for Determination of the Degree of Deacetylation of Chitosan," <i>Anal. Biochem.</i> 193:164-167 (1991).	
		Nguyen et al., "Composition of the Cell Walls of Several Yeast Species," <i>Abstract</i> 50:206-212 (1998).	
		Nikolaeva et al., CAPLUS Abstract, AN 1968:62461 (1968).	
		Nikolaeva et al., "Preparation of glucosamine from shrimp shells, and its use in medicine," Tr. Vses. Nauchno Issled. Inst. Morsk. Rybn. Khoz Okeanogr., pp. 165-169 (1967) (Abstract).	
		Nilsson et al., "Chitin as an indicator of the biomass of two wood-decay fungi in relation to temperature, incubation time, and media composition," Abstract, Canadian Journal of Microbiology, (1998), Vol. 44, No. 6, 575-581.	
		Niola et al., "A Rapid Method for the Determination of the Degree of N-Acetylation of Chitin-Chitosan Samples by Acid Hydrolysis and HPLC," <i>Carbohydr. Res.</i> 238:1-9 (1993).	

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
		No et al., "Preparation and Characterization of Chitin and Chitosan - A Review," <i>J. Aquat. Food Prod. Technol.</i> 4:27-51 (1995).	
		Nogawa et al., "Purification and Characterization of Exo- $\beta$ -D-Glucosaminidase from a Cellulolytic Fungus <i>Trichoderma reesei</i> PC-3-7," <i>Appl. Environ. Microbiol.</i> 64:890-895 (1998).	
		Novikov et al., "Synthesis of D(+)-Glucosamine Hydrochloride," <i>Russian J. Appl. Chem.</i> 70:1467-1470 (1997).	
		Novikov, "Kinetics of formation of D-(+)- glucosamine in acid hydrolysis of chitin," <i>Russian Journal Abstract (Sankt-Peterburg)</i> (1999), 72(1), 147-152.	
		Ottoy et al., "Preparative and Analytical Size-Exclusion Chromatography of Chitosans," <i>Carbohydr. Polymers</i> 31:253-261 (1996).	
		Ou et al., "Analysis of Antioxidant Activities of Common Vegetables Employing Oxygen Radical Absorbance Capacity (ORAC) and Ferric Reducing Antioxidant Power (FRAP) Assays: A Comparative Study," <i>J. Agric. Food Chem.</i> , 7 pp. (2002).	
		Pelletier et al., "Chitin/Chitosan Transformation by Thermo-Mechano-Chemical Treatment Including Characterization by Enzymatic Depolymerization," <i>Biotechnol. Bioeng.</i> 36:310-315 (1990).	
		Plassard et al., "Estimation of mycelial growth of basidiomycetes by means of chitin determination," <i>Abstract, Phytochemistry (Oxford)</i> (1982), Vol. 21, No. 2, 345-349.	
		Rege et al., "Chitosan Processing: Influence of Process Parameters During Acidic and Alkaline Hydrolysis and Effect of the Processing Sequence on the Resultant Chitosan's Properties," <i>Carbohydr. Res.</i> 321:235-245 (1999).	
		Roberts et al., "Determination of the Viscometric Constants for Chitosan," <i>Int. J. Biol.</i> 4:374-377 (1982).	
		Rokem et al., "Degradation of Fungal Cell Walls Taking into Consideration the Polysaccharide Composition," <i>Enzyme Microb. Technol.</i> 8:588-592 (1986).	
		Ruiz-Herrera, "Chemical Components of the Cell Wall of <i>Aspergillus</i> Species," <i>Arch. Biochem. Biophys.</i> 122:118-125 (1967).	
		Sabnis et al., "Improved Infrared Spectroscopic Method for the Analysis of Degree of N-Deacetylation of Chitosan," <i>Polymer Bulletin</i> 39:67-71 (1997).	
		Sakai et al., "Purification and Hydrolytic Action of a Chitosanase from <i>Nocardia orientalis</i> ," <i>Biochimica et Biophysica Acta</i> 1079:65-72 (1991).	
		Sannan et al., "Studies on Chitin, 2, Effect of Deacetylation on Solubility," <i>Makromol. Chem.</i> 177:3589-3600 (1976).	
		Shahidi et al., "Food Applications of Chitin and Chitosans," <i>Trends Food Sci. Technol.</i> 10:37-51 (1999).	

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	6682-66957-02
		Application Number	10/533,414
		Filing Date	April 29, 2005
		First Named Inventor	Rogers
		Art Unit	1623
		Examiner Name	Michael C. Henry
		Shu, "Degradation Products Formed from Glucosamine in Water," <i>J. Agricult. Food Chem.</i> 46:1129-1131 (1998).	
		Sigma, Biochemicals and Reagents, p. 461 (2000).	
		Stagg et al., "The Characterization of a Chitin-Associated D-Glucan from the Cell Walls of <i>Aspergillus Niger</i> ," 320:64-72 (1973).	
		Stainer et al., "The Microbial World," <i>Prentice-Hall, Inc.</i> , pp. 332-336 (1970).	
		Tan et al., "The Degree of Deacetylation of Chitosan: Advocating the First Derivative UV-Spectrophotometry Method of Determination," <i>Talanta</i> 45:713-719 (1998).	
		Troyano et al., "Monosaccharides and Myo-Inositol in Commercial Milks," <i>J. Agricult. Food Chem.</i> 44:815-817 (1996).	
		Wessels et al., "15 Fungal Cell Walls: A Survey," <i>Plant Carbohydrates II, Extracellular Carbohydrates</i> , pp. 352-394 (1981).	
		Wu et al., "Determination of Molecular-Weight Distribution of Chitosan by High-Performance Liquid Chromatography," <i>J. Chromatogr.</i> 128:87-99 (1976).	
		Xianchang Gong, <i>Heavy Metal Contaminates in the Glucosamine Product</i> (a paper regarding a crab shell glucosamine product) (date unknown).	
		Yang et al., "Acidic hydrolysis and determination of fungal mycelium in cereals," Chinese Journal Abstract, Chinese Agricultural Chemical Society (1998) 36(6), 555-564.	
		Yen et al., "Antioxidant and Prooxidant Activity of Xylose-Lysine Maillard Reaction Products," <u>The Maillard Reaction in Foods and Medicine</u> , Ed. J. O'Brien et al., pp. 231-236 (1998).	
		Yen et al., "Antioxidative Activity and Scavenging Effects on Active Oxygen of Xylose-Lysine Maillard Reaction Products," <i>J. Sci. Food Agric.</i> 67:415-420 (1995).	

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.